

**STANDARDS PRESENTATION
TO
CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD**

Attachment No. 2

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PROPOSED STATE STANDARD,
TITLE 8, DIVISION 1, CHAPTER 4

Subchapter 7. General Industry Safety Orders.

Group 1. General Physical Conditions and Structures.

Article 3. Special Design Requirements.

§3241.2. Earthquake Hazards in the Workplace.

- (a) Hazards of falling or toppling objects in the workplace due to earthquakes shall be evaluated by the employer. Such hazards may include, but are not necessarily limited to, falling or toppling furniture, storage racks or shelving (including contents), machinery, or equipment. Hazards may also include, but not be limited to, items stored, placed or located 6 feet or more above the floor. Where such hazards would endanger employees in the event of an earthquake, employers shall mitigate such hazards by utilizing methods, or combinations of methods, that may include, but are not limited to, the following:
- (1) Locating employee work stations and exit paths away from areas where such hazards exist.
 - (2) Anchoring, bracing, containing or restraining objects using brackets, clips, latches, bolts, screws, tie-downs, braces, hook-and-loop material, etc.
 - (3) Protecting employees from falling objects by means of physical barriers such as, but not limited to, fencing, netting, barricades or other equivalent means or methods.
 - (4) Restraining objects by methods or means designed by a California licensed structural engineer.
- (b) In addition to gravity loads, storage racks or cabinets shall be designed and constructed to resist horizontal forces associated with earthquakes. For the purposes of calculating the horizontal forces, the base shall be assumed to be anchored.

EXCEPTIONS:

1. Construction activities.
2. Items regulated by the California Building Code.

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3. Floor-supported storage racks, cabinets or book stacks not more than 6 feet in height need not be anchored if the width of the supporting base or width between the exterior legs is equal to or greater than two thirds the height.

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